

[54] FIRE PROTECTIVE THERMAL BARRIERS
FOR FOAM PLASTICS[76] Inventor: Joel S. Stahl, 746 Golfview Ave.,
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[57] ABSTRACT

A foamed polymeric material is coated with a fire pro-

TECTIVE thermal barrier product. The polymeric material, thus protected, is used for on-site application on walls, ceilings, decks and roofs of buildings. The thermal barrier product (hereafter "thermal barrier" for brevity) is also used to protect foam plastics in fire-resistant factory-made building panels, the exteriors of tanks and other vessels, and the coverings over pipes. The thermal barrier comprises a normally fluent thermosetting synthetic resinous material in which is dispersed an effective amount of hydrated magnesium sulfate and, optionally, inert inorganic fillers, pigments and the like. The thermal barrier is flowed or sprayed onto the foamed polymeric material, optionally, with an adhesive interlayer or "tie-coat" therebetween, to form a fire resistant laminate which laminate meets the "15-minute finish rating" or "hourly rated" requirement of building codes as determined by a testing procedure currently designated ASTM E-119-76, and other fire resistance requirements as determined by other fire resistance tests. A process is disclosed for utilizing compositions belonging to a family of thermal barrier products containing inorganic salts having water of crystallization which is driven off at a temperature from about 200° F but less than 600° F.

23 Claims, 6 Drawing Figures

